

Amendments to the Claims

1. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus for a DVD Audio decoding-system ~~system~~, the apparatus comprising:

a demultiplexer for demultiplexing a coded program stream ~~to~~ into a plurality of elementary streams;

an audio still video unit bit buffer for storing demultiplexed audio still video program streams;

a bit stream buffer for storing a demultiplexed audio program stream, ~~stream~~; and

an audio still video object address pointer table for storing address locations of the demultiplexed audio still video program streams and storing syntax error information,

wherein the demultiplexer is further for performing syntax error checking of an audio still video program stream during the demultiplexing of the coded program stream, and storing resultant syntax error information obtained by the syntax error checking in the audio still video object address pointer table.

2. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 1, wherein said audio still video object address pointer table is further for storing-stores status information of the demultiplexed audio still video program streams.

3. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 1, wherein said demultiplexer comprises:

a means for demultiplexing the coded program stream ~~to~~ into the plurality of elementary streams; streams, and

a means for switching ~~between~~ of writing to said audio still video unit bit buffer from and said bit stream-buffers buffer, ~~said the~~ switching to writing to said audio still video unit bit buffer occurring whenever an input bitstream is an audio still video program stream.

4. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 1, wherein said audio still video unit bit buffer for storing the demultiplexed audio still video program-bit streams comprises:

_____ a means for storing elementary streams of audio still ~~video~~, video; and
_____ a means for storing start address pointers of all or a sub group of elementary streams of an audio still video unit.

5. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 4, wherein said audio still video unit bit buffer further comprises a means for storing status information relating to all or a sub group of an audio still video unit.

6. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 1, wherein said audio still video object address pointer table comprises:

_____ a means for storing start and/or end address pointers of all or a sub group of elementary streams of an audio still video ~~unit~~, unit; and

_____ a means for storing status information relating to all or a sub group of an audio still video unit.

7. **(Currently Amended)** A bit stream buffering and demultiplexing apparatus according to claim 6, wherein said means for storing status information ~~storing means~~ comprises:

_____ a means for storing the syntax error ~~information~~, information; and

_____ a means for storing other information related to the audio still video unit.

8. **(Currently Amended)** A bit stream buffering and demultiplexing method for a DVD Audio decoding system, the method ~~comprising the steps of~~:

demultiplexing a coded program stream ~~to~~ into a plurality of elementary streams;

storing demultiplexed audio still video program streams;

storing a demultiplexed audio program ~~stream~~, stream; and

storing address locations of the demultiplexed audio still video program streams, wherein
~~wherein the demultiplexing step includes a step of~~ comprises demultiplexing ~~an~~ the audio still video unit program stream during a pre-loading ~~to the~~ an audio still video unit bit ~~buffer~~,
buffer;

_____ performing syntax error checking of an audio still video program stream during the demultiplexing of the coded program stream; and

storing resultant syntax error information obtained by the syntax error checking in an audio still video object address pointer table.

9. (Currently Amended) A DVD Audio decoding system ~~having comprising:~~

a bit stream ~~buffer~~ buffer; and

a demultiplexer, wherein

~~said multiplexer~~the demultiplexer is only one demultiplexer which ~~generates~~ is operable to generate an audio still video object address pointer table indicating an access address for each audio still video object, ~~to~~ and demultiplex both an audio program stream and an audio still video program stream,

said bit stream buffer ~~comprising~~ comprises means for storing demultiplexed audio still video data in an elementary ~~format~~ format, and

the demultiplexer is further operable to perform syntax error checking of an audio still video program stream during the demultiplexing of a coded program stream, whereby resultant syntax error information obtained by the syntax error checking is stored in the audio still video object address pointer table.